

# Francesco Coacci

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## Summary

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- Full-stack Developer and Entrepreneur with 6+ years of experience in software engineering, data integration, and building scalable systems
- Developed secure, high-performance applications using Golang, Python, Typescript, and AWS
- Skilled in leading cross-functional teams and driving new product development, resulting in increased user engagement and operational efficiency
- Strong ability to design and deploy scalable infrastructure, empowering users to unlock new revenue streams through innovative solutions

## Career Experience

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**Necto** – New York, NY May 2024 – Present

### Founding Engineer

- Designed and built a secure Golang GraphQL API, integrating third-party data providers through an OAuth2 abstraction layer to enhance data monetization capabilities
- Developed an iOS app using SwiftUI, enabling users to connect their services and products, creating new revenue streams through data monetization
- Automated data ingestion and processing pipelines on AWS using AWS CDK, reducing operational costs and improving system scalability
- Created a data buyers portal using Next.js and React, streamlining transactions and improving user engagement

**Hashgraph** – Dallas, TX May 2022 – Dec 2022

### Developer Relations Engineer

- Delivered educational workshops to over 1,000 developers, increasing awareness and adoption of Hedera blockchain
- Developed practical examples using the Hedera SDK and Solidity, enhancing resources for a community of over 30,000 developers
- Built a React application to simplify the Hedera SDK, improving onboarding and developer experience through runnable code snippets

**Freelancer** – Genoa, Italy Apr 2018 – Apr 2022

### Full-stack Engineer

- Engineered a scalable Node.js voting platform, supporting over 5,000 participants in real-time, increasing engagement for a large-scale event
- Built a cross-platform document scanning app using OpenCV, integrated with Firebase, resulting in a 60% increase in productivity for document processing

## Education

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**New York University, Graduate School of Arts and Science** – New York, NY Sep 2023 – Dec 2024

### Master of Science, Computing, Entrepreneurship & Innovation

Clubs: NYU Blockchain Club, NYU Entrepreneurship Club

**University of Genoa** – Genoa, Italy Sep 2019 – Sep 2022

### Bachelor of Science, Computer Science

Final Thesis: “The Hashgraph Algorithm: A Solution to the Blockchain Trilemma.”

## Projects

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### Coal: A song copyright violation recognition algorithm, NYU Research Project

Developed a music pattern recognition algorithm using a variation of Longest Common Subsequence (LCS), accurately determining matching rates between new songs and existing compositions. Enabled automatic royalty distribution to artists by detecting sampled music, promoting fair compensation and streamlining copyright enforcement

### Forma: A wearable device that improves running form with AI real-time feedback

Developed Python Django API, AWS CDK Infrastructure, ML Model for bad and good running form recognition, UI and UX